ORIGINAL

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*VIRGINIA BAR ONLY

March 5, 1993

Ms. Donna Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

Dear Ms. Searcy:

On behalf of Glendale Broadcasting Company, we now submit an original and two copies of an [redacted] of its pending application for a construction permit for a new commercial television on Channel 63 at [redacted] (File No. [redacted]).

The amendment, which specifies a new transmitter site, is filed as of right. Glendale's application was accepted for filing by Public Notice, Report No. 15213 (released March 9, 1992). That notice did not specify any deadline for amendments as of right. Section 73.3522(a)(2) of the Commission's rules is therefore inapplicable. Since the application has not been designated for hearing, this amendment is filed as of right pursuant to Section 73.3522(a)(1) of the Commission's rules.

Should there be any questions concerning this matter, kindly communicate directly with this office.

Regards,

John J. Schauble

John J. Schauble

Enclosures

AMENDMENT

The application of Glendale Broadcasting Company (Glendale) for a construction permit for a new commercial television station on Channel 63 at Monroe, Georgia (File No. BPCT-920228KE) is now amended to substitute the attached engineering, which specifies a new transmitter site, for the engineering currently on file with the Commission. The Commission is informed that Glendale accepts the condition requested by the Federal Aviation Administration on Page 3 of its "Determination of No Hazard to Air Navigation" (Figure 6 of the amendment).

3-3-93
Date

Mary Anne Adams
Vice President
Glendale Broadcasting Company

SITE AVAILABILITY CERTIFICATION

Reasonable assurance of site availability for the transmitter site specified in this amendment was obtained from Clarence Hall, the owner of the property. Mr. Hall's phone number is (404) 388-7700.

JOHN J. MULLANEY
JOHN H. MULLANEY, P.E.

MULLANEY ENGINEERING, INC.
9049 SHADY GROVE COURT
GAITHERSBURG, MD 20877

301 921-0115

ENGINEERING EXHIBIT EE-1:

GLENDALE BROADCASTING COMPANY
MONROE, GEORGIA
Channel 63z 5000 KW-DA 354 Meters

FEBRUARY 26, 1993

ENGINEERING IN SUPPORT OF
AN **AMENDMENT** TO
A PENDING APPLICATION FOR A
NEW UHF TELEVISION STATION

ORIGINAL
SIGNATURE

ENGINEERING EXHIBIT EE-1:

GLENDALE BROADCASTING COMPANY
MONROE, GEORGIA
Channel 63z 5000 KW-DA 354 Meters

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6. Figure 2, Map Showing Proposed Contours.

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8. Figure 3, Vertical Tower Sketch.

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Section V-C - TV BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

Glendale Broadcasting Company (2/93)

Call letters (if issued)

- - -

Purpose of Application (check appropriate box): MX with renewal of WMSG

- ■ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate nature of change(s) by checking appropriate box(es), and specify the file number(s) of the authorization(s) affected:

- ■ Antenna supporting-structure height
- ☐ Effective radiated power
- ■ Antenna height above average terrain
- ☐ Frequency
- ■ Antenna location
- ☐ Antenna system
- ☐ Main Studio location
- ☐ Other (Summarize briefly)

BPCT-920228KE

4. Does the application propose to correct previous site coordinates? ☐ Yes ■ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ■ Yes ☐ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No. EE-1 Fig 6

Date 12/16/93 Office where filed Sourthern Region

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	Whispering Pines	4.8	23
(b)	Lenora	6.9	11
	Lola Landing	3.7	115

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level: 960' 293 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 1089' 332 meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 2049' 625 meters

(b) Height of antenna radiation center: *(to the nearest meter)*

(1) above ground: 1064' 324 meters

(2) above mean sea level [(a)(1) + (b)(1)]; and 2024' 617 meters

(3) above average terrain. 1182' 360 meters

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of TV radiator.

Exhibit No. EE-1 Fig 3

9. Maximum visual effective radiated power 5000 kW-DA

10. Antenna:

(a) Manufacturer Dielectric (b) Model No. TFU36JDAS

(c) Is a directional antenna proposed? ■ Yes ☐ No

If Yes, specify major lobe azimuth(s) 320° degrees True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685. Fig 4A, 4B, 4C — Exhibit No. EE-1

(d) Is electrical beam tilt proposed? ■ Yes ☐ No

If Yes, specify 0.75° degrees electrical beam tilt and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685. Fig 4 — Exhibit No. EE-1

(e) Is mechanical beam tilt proposed? ☐ Yes ■ No

If Yes, specify _____ degrees mechanical beam tilt toward azimuth _____ degrees True and attach as an Exhibit all data specified in 47 C.F.R. Section 73.685. — Exhibit No. - - -

(f) The proposed antenna is: *(check only one box)*

■ horizontally polarized ☐ circularly polarized ☐ elliptically polarized

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.685(a) and (b)? ■ Yes ☐ No

If No, attach as an Exhibit justification therefor, including amounts and percentages of population and area that will not receive City Grade service. — Exhibit No. - - -

12. Will the main studio be located within the station's predicted principal community contour as defined by 47 C.F.R. Section 73.685(a)? ■ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. — Exhibit No. - - -

13. Does the proposed facility satisfy the requirement of 47 C.F.R. Section 73.610? ☐ Yes ■ No

Fig 5

If No, attach as an Exhibit justification therefor, including a summary of any previously granted waiver(s). Requests continued waiver to Vacant Non-Commercial Allotment — Exhibit No. EE-1

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters; or (b) in the general vicinity, any nonbroadcast *(except citizens band or amateur)* radio stations or any established commercial or government receiving stations? ■ Yes ☐ No

If Yes, attach as an Exhibit a description of the expected, undesired effects of operations and remedial steps to be pursued, if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference *(including that caused by intermodulation)* to facilities in existence or authorized prior to grant of this application. *(See 47 C.F.R. Sections 73.685(d) and (g).)* — Exhibit No. EE-1

15. Attach as an Exhibit a topographic map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the provisions of 47 C.F.R. Section 73.684(g). The map must further display clearly and legibly the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. — Exhibit No. EE-1 Fig 1, 1A

16. Attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* which shows clearly, legibly and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. EE-1
Fig 2,2A

(a) The proposed transmitter location, and the radials along which profile graphs have been prepared;
(b) The City Grade, Grade A and Grade B predicted contours; and
(c) The legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population *(latest census)* within the predicted Grade B contour.

Area 19,970 sq. km. Population 3,141,015

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. - - -

DNA

(a) The proposed auxiliary Grade B contour; and
(b) The Grade B contour of the licensed main facility for which the applied-for facility will be the auxiliary.

(Main facility license file number _____)

19. Terrain and Coverage Data *(To be calculated in accordance with 47 C.F.R. Section 73.684.)*

Source of terrain data: *(check only one box below)*

☐ Linearly interpolated 30-second database (Source: DGDC)

☐ 7.5 minute topographic map

☐ Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances		
		To the City Grade Contour (kilometers)	To the Grade A Contour (kilometers)	To the Grade B Contour (kilometers)
*80	365.4	47.2	56.5	73.2
0	323.6	55.7	65.0	83.7
45	341.9	53.6	62.9	81.1
90	371.2	44.1	53.4	69.5
135	395.5	48.9	58.4	76.1
180	374.9	42.8	52.0	68.1
225	371.6	54.1	63.6	82.4
270	348.1	56.6	66.1	85.6
315	356.5	58.6	68.4	88.8

20. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact? ☐ Yes ■ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1.1311. Exhibit No. ---

See Exhibit EE-1

If No, explain briefly why not.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)*	Relationship to Applicant *(e.g., Consulting Engineer)*
John J. Mullaney	Consulting Engineer
Signature: John J. Mullaney	Address *(Include ZIP Code)* Mullaney Engineering, Inc. 9049 Shady Grove Court Gaithersburg, MD 20877
Date: 2/26/93	Telephone No. *(Include Area Code)* (301) 921-0115

MULLANEY ENGINEERING, INC.

DECLARATION

I, John J. Mullaney, declare and state that I am a graduate electrical engineer with a B.E.E. and my qualifications are known to the Federal Communications Commission, and that I am an engineer in the firm of Mullaney Engineering, Inc., and that firm has been retained by Glendale Broadcasting Company to prepare an amendment to its application for a new TV station.

All facts contained herein are true of his own knowledge except where stated to be on information or belief, and as to those facts, I believe them to be true. I declare under penalty of perjury that the foregoing is true and correct.

John J. Mullaney

Executed on the 26th day of February 1993.

ENGINEERING EXHIBIT EE-1:

GLENDALE BROADCASTING COMPANY
MONROE, GEORGIA
Channel 63z 5000 KW-DA 354 Meters

NARRATIVE STATEMENT:

I. GENERAL:

This engineering statement has been prepared on behalf of Glendale Broadcasting Company. The purpose of this statement is to support an amendment to its request for a Construction Permit (CP) to build a NEW UHF Television Station on Channel 63z at Monroe, Georgia. Glendale proposes to operate with an E.R.P. of 5000 KW-DA and an HAAT of 353.8 Meters (1161 Feet)

This amendment was a direct result of negotiations with the FAA. The site initially proposed by Glenddale received three objections from the aeronautical community (see page 2 of FAA determination). As a result the FAA limited Glendale to 500' AGL rather than the originally requested height of 1124' AGL. Glendale was subsequently able to secure an alternate site that eliminated the adverse effects on aeronautical operations.

The application is MUTUALLY EXCLUSIVE with the renewal of:

Trinity Broadcasting
Monroe, Georgia
File No. BLCT-910304KF

The application will require a continued waiver of Section 73.610 regarding the minimum required separation to a vacant non-commercial allotment at Montgomery, Alabama.

The application is not a major environmental action, as defined by Section 1.1307 of the Commission's Rules. The proposed facility is in full compliance with the FCC / ANSI Radiation Guidelines.

Answers to questions contained in F.C.C. Form 301, Section V-C are incorporated in the following paragraphs and figures.

II. ENGINEERING DISCUSSION:

A. Proposed Location:

Glendale proposes to erect a new tower immediately adjacent to an existing 500' tower operated by WXYM700. The City of License, Monroe, Georgia, is located approximately 28 kilometers on a bearing of N-80°-E from this site. Figure 1 is a Topographic Map showing the proposed site.

The geographic coordinates are:

Latitude: 33° 44' 38"
Longitude: 84° 00' 39"

The Atlanta office of the F.A.A. issued a Determination of No Hazard (See Figure 6) for this proposal which was effective on January 25, 1993. Figure 1-A is an Aeronautical Map showing the proposed site.

B. Transmitter:

Glendale proposes to install a type accepted TV transmitter. The transmitter will be operated at 88.6 KW

Visual and 8.6 KW Aural, which is within its rated power.

A calibrated dummy-load and wattmeter will be used in accordance with the transmitter manufacturer's instructions for determining and maintaining power output.

C. **Antenna:**

Glendale proposes to install a Dielectric Type TFU-36JDAS UHF TV Antenna with a directional horizontal pattern. The antenna will have a center line of 320° True (pattern S200, Gain= 2.0).

Figure 4, is a plot of the proposed elevation radiation pattern which incorporates 0.75° of beam tilt and some null fill-in. The depression angle from the proposed site varies between 0.498° to 0.558°, which is well within 90 percent of the maximum field strength.

Figure 4-A is a plot of the proposed directional horizontal radiation pattern (relative field). Figure 4-B is a plot of the proposed directional horizontal radiation pattern (dBK). Figure 4-C is a tabulation of the proposed directional horizontal radiation pattern (relative/dBK/KW). This is identical to the pattern originally proposed.

The antenna has a maximum vertical plane power gain of 15.18 dB (33 times) in the main lobe and 13.02 dB (20 times) at the horizontal. When the directional horizontal pattern is combined with the vertical plane pattern the antenna will produce 66 times the antenna input power in the main lobe.

GLENDALE BROADCASTING COMPANY

upon the standard eight radials.

Using the terrain data, the predicted City Grade (80 dBu), Grade A (74 dBu), and Grade B (64 dBu) contours were determined by a computerized mathematical model of the data shown in Figure 10.b of Section 73.699 of the Commission's Rules, the so-called F(50,50) curves. This is the Commission's computer program TV-FMFS, (Report RS-76-01, dated January, 1976).

The N-80-E radial is the direct path to the city of license, Monroe, Georgia. After comparing the terrain along this path against the proposed antenna height it was determined that the proposed City Grade contour will completely encompass the principal city without major terrain obstructions.

The Grade A, B, and City Grade contours are plotted in Figure 2. From this figure it can be seen that the required City Grade coverage is provided. Figure 2-A & 2-B are tabulations of the distances to these contours.

H. Channel Allocation:

Figure 5 is a tabulation of the channel allocation conditions using the proposed site as a reference point. From the tabulation it can be seen that this proposal EXCEEDS the minimum required spacing to all existing or proposed stations except the vacant allotment for Ch. 63* at Montgomery, Alabama. The site proposed herein will create a 18.4 kilometer short spacing. It should be noted that WHSG's licensed is currently short spaced by 18.2 kilometer to that same reference point. Inasmuch as the short spacing proposed herein is within 0.2 km of what currently exists, a similar waiver is requested.

The application is MUTUALLY EXCLUSIVE with the renewal of WHSG on Ch. 63 at Monroe, GA.

I. **Coverage Area and Population:**

The land area contained within the Grade B contour is 19,970 square kilometers and has been computed mathematically.

The population within the Grade B contour is 3,141,015 persons and was obtained through a computerized analysis of the census designated places population data contained in the 1990 Census.

J. **Other Services in Area:**

There are NO known AM Broadcast Stations within 3.2 kilometers of the proposed site.

As previously discussed, Glendale proposes to locate immediately adjacent to an existing tower. The tower is

K. **Environmental Assessment Statement:**

Glendale believes its proposal will not significantly affect the environment since it does not meet any of the

The following is a more detailed discussion of this protection standard:

a. **National Environmental Policy Act of 1969:**

In 1969, Congress enacted the National Environmental Policy Act (NEPA), which requires the FCC to evaluate the potential environmental significance of the facilities it regulates and authorizes. Human exposure to Radio Frequency (RF) radiation has been identified as an issue the FCC must consider.

Beginning with the filing of applications after January 1, 1986, broadcast stations will be required to "certify compliance" with FCC prescribed guidelines on human exposure to RF radiation. The FCC is using as its processing guidelines, the American National Standards Institute's (ANSI) RF radiation protection guides (ANSI C95.1-1982). These exposure limits are expressed in terms of milli-watts per square centimeter.

These exposure limits are time averaged over any six minute period and vary depending upon the frequency involved:

Frequency Range (MHz)			Power Density (mW/cm^2)	
0.3	to	3	100	AM
3	to	30	$900/(Freq^2)$	
30	to	300	1.0	VHF TV & FM
300	**to**	**1,500**	**Freq/300**	**UHF TV**
1500	to	100,000	5.0	

(same as ANSI standard)

In the following formula:

$$D = \frac{SQRT(F^2 * [0.4*VERP + AERP])}{1.667 * SQRT(PD) * 3.2808}$$

Where:

D = the closest distance in meters that a human should come to an operating antenna (to obtain feet multiply by 3.2808)
F = typical relative field factor in downward direction (F = 1 is worst case main lobe)
VERP = peak Visual ERP in watts (above a dipole)
VERP = Aural ERP in watts (above a dipole)
PD = highest Power Density in milli-watts/cm^2
SQRT = Square Root
Freq = Frequency in mega-cycles/sec. (mHz)

The vertical radiation pattern of the TV antenna specified in this application is very narrow and therefore the power density as seen by an observer on the ground near the base of the tower will be less than 10 percent of the total ERP or 500 KW.

The application of the above equation (assuming maximum ERP), in our case, for a frequency of 764 to 770 MHz and a Power Density of 2.55 milli-watts results in a minimum distance of 181.2 meters (595 feet) from the antenna. Inasmuch as the lowest element on the proposed antenna will be approximately 317.6 meters (1042 feet) above ground level, it is self-evident that no hazard from radiation will exist to persons at ground level. With regard to people which need to climb the tower, the tower will be fenced and/or marked by appropriate warning signs to insure safety.

Workers employed to climb the tower or work in a potential over-exposure location will not be permitted to enter the work area until cleared by the station manager or other responsible person. Appropriate warning signs will be posted to insure safety. In addition, the applicant will establish and enforce work rules and safety procedures applicable in a potential over-exposure area. The rules will establish how close a worker can get to the antenna when it is operating at normal power and specify the power reduction required in order to make other locations safe. It is recognized that maintenance or installation work on or near the antenna will require the station to completely shutdown or switch temporarily to an auxiliary antenna or an auxiliary transmitter site. All employees, contract and other persons having access to areas of potential exposure will be required to sign a site management guide indicating they are aware of and will comply with all safety rules. In the instance of a multiple use site, a single site access policy incorporating the above philosophy will be established. All procedures will be reviewed & updated as necessary on a yearly basis or earlier if circumstances warrant.

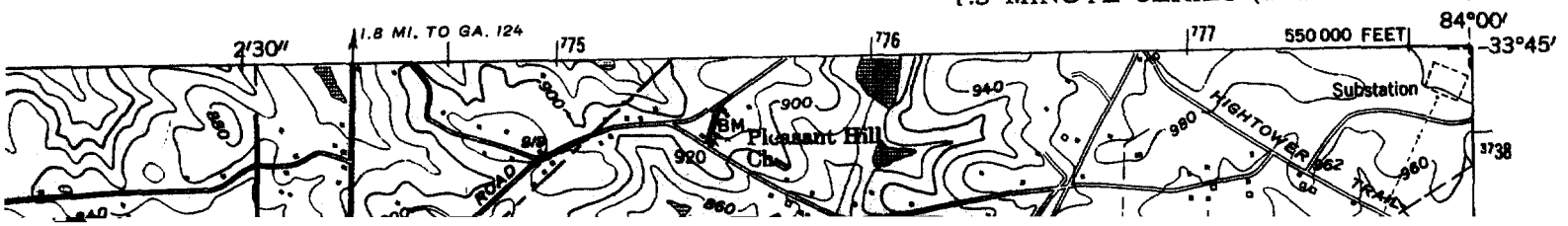
III. **SUMMARY:**

Glendale Broadcasting Company hereby amends its request for a Construction Permit for a NEW UHF Television Station on Channel 63 at Monroe, Georgia. The proposed operation will provide the required City Grade signal to the entire City of License. This application is in full compliance with the Commission's Rules.

John J. Mullaney

February 26, 1993.

CONYERS QUADRANGLE
GEORGIA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Washington
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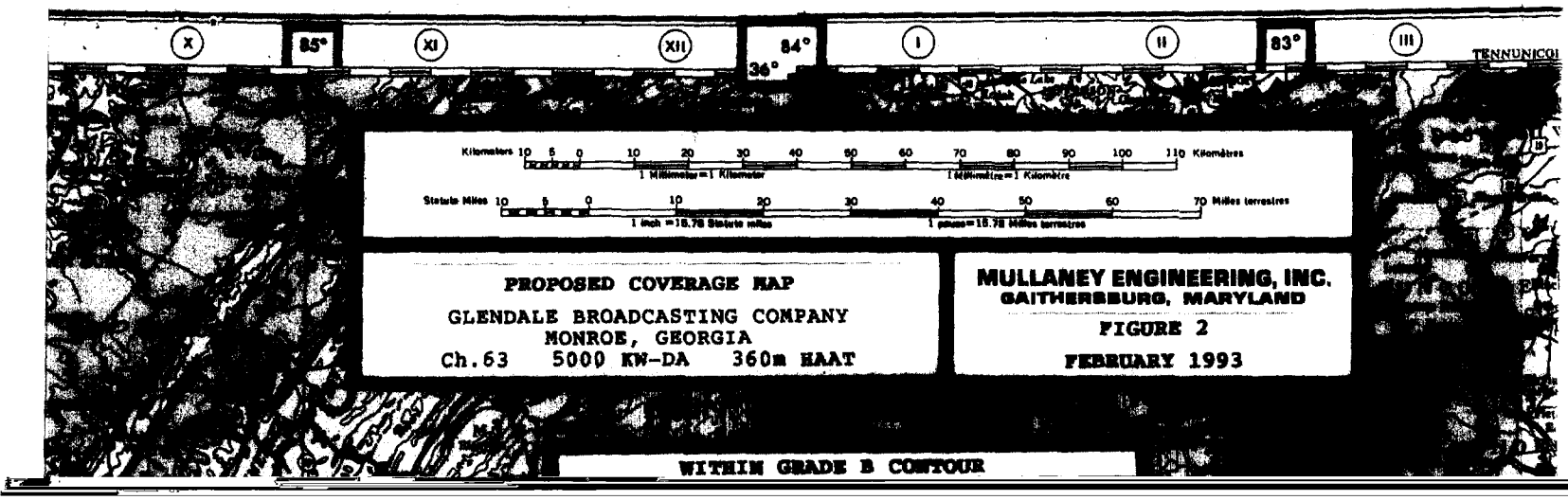
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TENNUNICOI
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1 Millimeter = 1 Kilometer
1 Millimètre = 1 Kilomètre
Statute Miles 10 5 0 10 20 30 40 50 60 70 Milles terrestres
1 inch = 15.78 Statute miles
1 pouce = 15.78 Milles terrestres
PROPOSED COVERAGE MAP
GLENDALE BROADCASTING COMPANY
MONROE, GEORGIA
Ch.63 5000 KW-DA 360m HAAT
MULLANEY ENGINEERING, INC.
GAITHERSBURG, MARYLAND
FIGURE 2
FEBRUARY 1993
WITHIN GRADE B CONTOUR